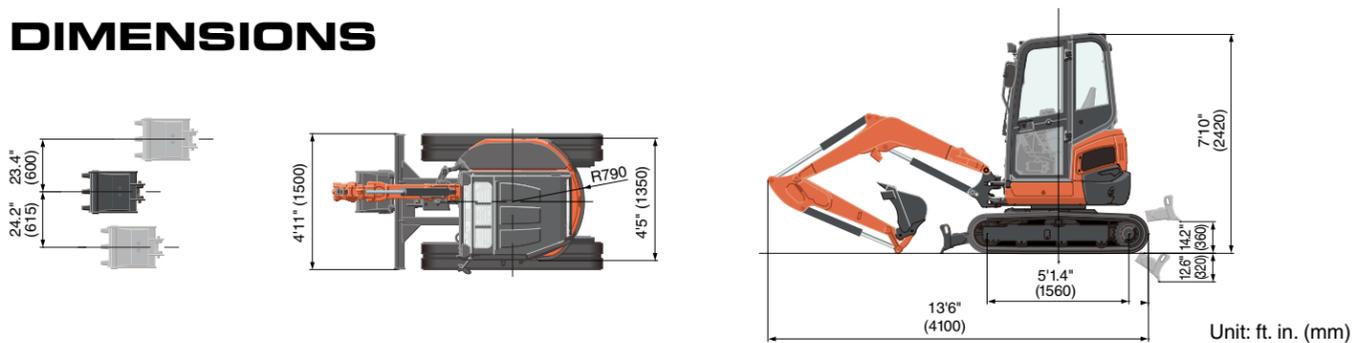


# SPECIFICATIONS

Model		U27-4		
Type of ROPS/FOPS		Canopy / Cab		
Type of tracks		Rubber		
Engine	Model	Kubota D1105-BH		
	Output (SAE J1995 gross)	HP (kW)/rpm	20.9 (15.6) / 2400	
	Output (SAE J1349 net)	HP (kW)/rpm	20.0 (14.9) / 2400	
	Displacement	cu.in. (cc)	68.5 (1123)	
Dimensions	Overall length	ft. in.(mm)	13'6" (4100)	
	Overall height	Canopy / Cab ft. in.(mm)	7'11" (2420) / 7'10" (2400)	
	Overall width	ft. in.(mm)	4'11" (1500)	
	Min. ground clearance	in.(mm)	12.1 (307)	
Hydraulic system	Pump capacity	gpm (ℓ/min.)	7.6 (28.8) × 2 / 5.1 (19.2) × 1	
	Auxiliary hydraulic flow	gpm (ℓ/min.)	12.7 (48)	
	Max. breakout force	Bucket / Arm lbs. (kgf)	7014 (3180) / 2777 (1260)	
Drive system	Travel speed	Low / High mph (km/h)	1.6 (2.6) / 2.7 (4.3)	
	Max. traction force	Low speed lbs. (kgf)	6767 (3069)	
	Tumbler distance	ft. in.(mm)	5'1.4" (1560)	
	Crawler length	ft. in.(mm)	6'6.3" (1990)	
	Shoe width	Rubber in.(mm)	11.8 (300)	
	Ground contact pressure	Canopy	psi (kgf/cm <sup>2</sup> )	3.321 (0.234)
Cab		psi (kgf/cm <sup>2</sup> )	3.481 (0.245)	
Swing system	Unit swing speed	rpm	9.9	
	Boom swing angle	Left / Right degree	75 / 55	
Blade	Dimension	Width	ft. in.(mm)	4'11" (1500)
		Height	ft. in.(mm)	11.8" (300)
	Max. lift above ground	in.(mm)	14.2" (360)	
	Max. drop below ground	in.(mm)	12.6" (320)	
Hydraulic oil (reservoir / system)		gal (ℓ)	5.8 (22) / 9.7 (37)	
Fuel reservoir		gal (ℓ)	8.7 (33)	
Operating weight (Includes operator weight 175lbs.)	Canopy	Rubber lbs. (kgf)	5688 (2580)	
	Cab	Rubber lbs. (kgf)	5908 (2680)	

# DIMENSIONS



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**U**

# KUBOTA TIGHT TAIL SWING COMPACT EXCAVATOR U27-4

Compact and durable enough to tackle demanding tasks in tight working conditions with ease.



# SUPERIOR PERFORMANCE

The U27-4 gets the job done where larger excavators can't maneuver. The tight-tail swing lets you travel through and turn smoothly in tight spaces with ease. Powerful digging forces combined with the ability to simultaneously operate the pilot controlled hydraulic functions make the work day more productive.

## Kubota original engine

The U27-4 is powered by a proven Kubota tier 4 final diesel engine. The engine power is matched with the abilities of the hydraulic system to maximize digging and lifting performance. Operators also benefit from the minimal noise and vibration.

## Auto-shift

The auto-shift automatically shifts travel speed from high to low, depending on traction and terrain, allowing smoother operation when dozing and turning.



## Tight tail swing

The U27-4's tight tail swing proves to be highly versatile when operating in confined conditions. An operator can be confident there is less chance for damage to the machine or surroundings due to the tight tail swing design.

## Third-line hydraulic return

When working with one-way hydraulic attachments, such as a breaker or brush cutter, the standard third-line hydraulic return system allows oil flow directly to the tank without having to return oil back through the main control valve. This simple flow return system provides greater flow efficiency, reduced back pressure and less heat.



## Proportional flow control of auxiliary circuit

The thumb-operated switch on the right joystick allows easy proportional flow control of the AUX circuit. In addition, the small dial on top of the meter panel adds even more controllability, the oil flow can be adjusted up to 12.7GPM.



Right control lever



AUX circuit dial

## AUX diverter valve

The diverter valve allows the hydraulic thumb attachment to remain connected while diverting oil flow to other auxiliary attachments when needed, reducing transition time between attachments and improving overall productivity.

## Thumb bracket and relief valves

The hydraulic thumb makes short work of a variety of loading and material handling jobs. The factory installed mount brackets and hydraulics significantly reduce the time needed to mount accessories.

## Powerful digging force

The U27-4 delivers an impressive bucket digging force of 7014 lbs. The powerful and well-balanced arm and bucket design allows the operator to dig faster, deeper (9'5" / 2870 mm) and more efficient even in the toughest conditions. The working range for reach and dig depth are best in class that operators will appreciate in terms of daily productivity.

## Simultaneous operation

Many jobs require the simultaneous operation of the boom, arm, bucket, and swivel for efficient operations. There are two variable displacement pumps that distribute a correct amount of oil flow to each function according to the joystick lever stroke. The ability of simultaneous operation enables continuous high production while performing multiple functions.

# SPACIOUS CAB AND DELUXE INTERIOR

The large cab\* offers a wider entrance, greater leg room, more floor space and a luxurious interior to make the work day more comfortable. Operability is greatly enhanced with more easy-to-use features than ever before. \*Heater only

## Large operator's station

With a large and comfortable operator's station, the U27-4 offers an extra level of comfort and convenience that operators are sure to appreciate during long jobs.

## New front meter panel

The new user-friendly front meter panel puts convenience at your fingertips. Positioned to the front right corner of the operator for better visibility and accessibility, it features easy one-touch button operation to view the time, hour meter and tachometer. Warning lamps with codes on the display will alert you of machine conditions such as overheating, hydraulic system monitoring or a low battery.



1. Fuel Level Gauge
2. Water Temperature Gauge
3. Warning Lamps  
(Engine oil pressure, Battery charge, Coolant temperature)
4. LCD Display (Time, Hour, rpm)

### Time

12:00 n/min  
h

### Hour Meter

15.8 n/min  
h

### Tachometer

2243 n/min  
h

## Easy-open front slide window

Unlike many excavator windows, the front glass window of the U27-4 opens with ease. Just flip the latches on the window sides and slide it up. A gas-assist mechanism makes this action almost effortless.

## Easy Cab entry and exit

The wide cab entrance allows quick access in and out for those jobs where you spend your day continually on the move.

## TPSS

The Two-Pattern Selection System positioned under the seat allows the operator to shift control styles conveniently while seated. A simple turn of a switch is all it takes to select between the ISO pattern and the SAE backhoe pattern. This standard feature allows operators to choose their preferred choice of operation for comfort and efficiency.

## A. Flat foot space

The flat foot space enables easy entry and exit and enhances comfort by providing ample leg room to reduce fatigue even during long hours of operation.

## B. 2-speed travel switch

By conveniently placing the 2-speed travel switch on the dozer lever, dozing operations can be done faster and easier without having to remove your hand from the dozer control lever during operation.



## C. Cup holder

With the convenience of a bigger cup holder, you can quench your thirst and work longer without leaving your seat.

## D. Wrist rest

A thoughtfully designed wrist rest enhances operation and reduces operator fatigue.

## E. Suspension seat

Designed for better fit and comfort for long hours of work, Kubota's standard highback suspension seat minimizes strain and operator fatigue by accommodating your individual posture and weight. A seat belt is fitted as standard with a 3" available as an option.



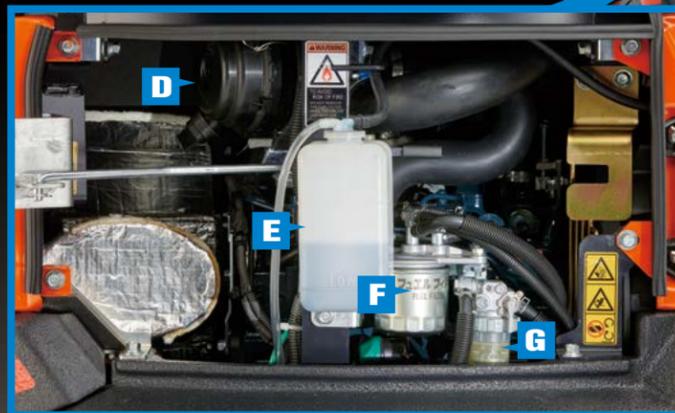
# MAINTENANCE & SAFETY

With the U27-4, operators can work with confidence knowing they are protected by the ROPS/OPG on both the open station or optional enclosed cab. Furthermore, the engine compartment is ergonomically organized with easy access to the radiator and engine oil cooler to make routine maintenance and inspections a breeze.

## ROPS/OPG (top guard, level I) canopy and cabin

The ROPS/OPG (Top Guard, Level I) canopy / cabin provides protection in the event of accidental rollovers and falling objects.

- A. Battery**
- B. Radiator**
- C. Oil cooler**
- D. Air cleaner**
- E. Engine coolant reservoir tank**
- F. Fuel filter**
- G. Water separator**



## Travel lock system

The travel lock system locks the tracks to prevent inadvertent movement of the machine. This keeps the excavator secure during transport or while parked on slopes.

## Swivel negative brake

The swivel negative brake automatically locks the swivel function in its current position. This prevents unexpected machine movement. It's particularly useful during work on slopes or when transporting the excavator between worksites.

## Tie down points

For secure transportation, tie down points are installed on the track frame, swivel frame, and the dozer.

## Protected cylinder hoses

The cylinder hoses for arm and bucket are located inside the boom to protect the hoses from any type of damage.

# U27-4 EQUIPMENT

## STANDARD EQUIPMENT

### Safety system

- Travel lock system
- Fully locked hydraulic system
- Swivel negative brake
- Tie down brackets

### Working equipment

- 2 working lights on cab and 1 light on the boom
- Auxiliary hydraulic circuit 1 with proportional control on right control lever
- Thumb bracket and relief valve
- Dozer Blade

### Operator's space

- ROPS/OPG (Top Guard Level I) canopy
- Weight adjustable suspension seat
- Retractable seat belt
- Hydraulic pilot control levers with wrist rests
- Front meter panel with diagnosis function

- 12V power outlet
- Two pattern selection system
- Cup holder
- Horn

### Engine/Fuel system

- Double element air filter
- Water separator with drain port

### Undercarriage

- 11.8" (300mm) rubber track
- Double flange track roller
- 2-speed travel switch on dozer lever
- 2 speed travel with auto-shift

### Hydraulic system

- Variable displacement pump
- Hydraulic pressure checking ports
- Pressure accumulator
- Straight travel circuit
- Third line hydraulic return

- Auxiliary circuit with proportional control
- AUX diverter valve
- AUX oil flow adjustable dial

### Others

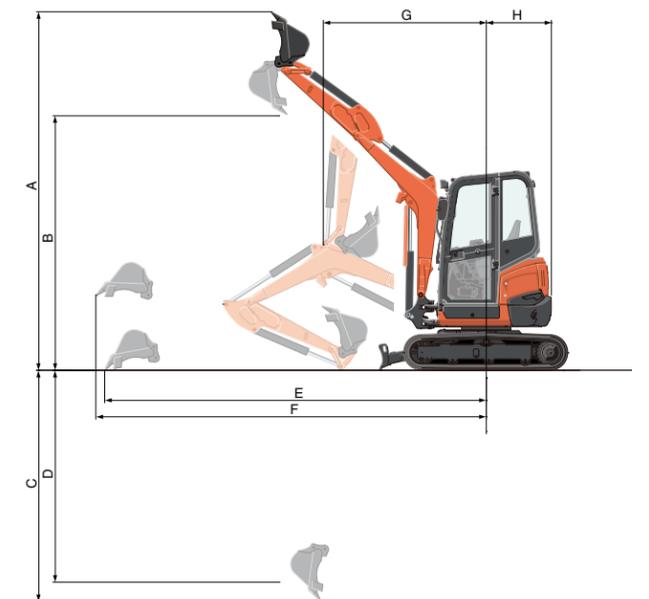
- Tool storage space

## OPTIONAL EQUIPMENT

- Cab with heater only
- Travel alarm
- Canopy lights
- Cab mirror
- Travel foot pedal
- Spark Arrestor muffler
- 3" Seat Belt
- Cab Radio

## WORKING RANGE

Model		U27-4	
A	Max. digging height	ft. in. (mm)	14'6" (4420)
B	Max. dumping height	ft. in. (mm)	10'0" (3040)
C	Max. digging depth	ft. in. (mm)	9'5" (2870)
D	Max. vertical digging depth	ft. in. (mm)	7'8" (2340)
E	Max. digging radius at ground	ft. in. (mm)	15'4" (4680)
F	Max. digging radius	ft. in. (mm)	15'9" (4790)
G	Min. turning radius	W/O swing	ft. in. (mm) 6'6" (1970)
		W swing	ft. in. (mm) 5'1" (1539)
H	Min. tail turning radius	ft. in. (mm)	2.7" (790)



## LIFTING CAPACITY

LIFT POINT HEIGHT (ft)	LIFTING CAPACITY OVER-FRONT BLADE DOWN			LIFTING CAPACITY OVER-SIDE		
	LIFT POINT RADIUS (ft)			LIFT POINT RADIUS (ft)		
	8	10	12	8	10	12
6	1.09	0.99	0.94	1.09	0.81	0.61
4	1.49	1.17	1.01	1.10	0.79	0.60
2	1.84	1.34	1.09	1.05	0.76	0.59
GL	2.00	1.44	1.13	1.02	0.74	0.58

unit: 1000 lbs

